

FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)	ATTY. DOCKET NO. TAN-2-1400.06.US	SERIAL NO. 10/767,016
	APPLICANT Foore et al.	
	FILING DATE January 29, 2004	GROUP 2472

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,107,469	08/1978	Jenkins			
		4,577,316	03/1986	Schiff			
		4,625,308	11/1986	Kim et al.			
		4,675,863	06/1987	Paneth et al.			
		4,817,089	03/1989	Paneth et al.			
		4,841,526	06/1989	Wilson et al.			
		4,862,453	08/1989	West et al.			
		4,866,709	09/1989	West et al.			
		4,912,705	03/1990	Paneth et al.			
		4,949,395	08/1990	Rydbeck			
		5,022,024	06/1991	Paneth et al.			
		5,027,348	06/1991	Curry			
		5,027,400	06/1991	Baji et al.			
		5,114,375	05/1992	Wellhausen et al.			
		5,115,309	05/1992	Hang			
		5,226,044	07/1993	Gupta et al.			
		5,268,900	12/1993	Hluchyj et al.			
		5,282,222	01/1994	Fattouche et al.			
		5,325,419	06/1994	Connolly et al.			
		5,355,374	10/1994	Hester et al.			
		5,369,637	11/1994	Richardson et al.			
		5,373,502	12/1994	Turban			
		5,375,124	12/1994	D'Ambrogio, et al.			
		5,388,102	02/1995	Griffith et al.			
		5,394,473	02/1995	Davidson			

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	5,412,429	05/1995	Glover			
	5,442,625	08/1995	Gitlin et al.			
	5,463,629	10/1995	Ko			
	5,471,463	11/1995	Hulbert			
	5,546,382	08/1996	Fujino			
	5,585,850	12/1996	Schwaller			
	5,586,113	12/1996	Adachi et al.			
	5,590,156	12/1996	Carney			
	5,592,470	01/1997	Rudrapatna et al.			
	5,592,471	01/1997	Briskman			
	5,594,782	01/1997	Zicker et al.			
	5,603,081	02/1997	Raith et al.			
	5,606,580	02/1997	Mourot et al.			
	5,617,423	04/1997	Li et al.			
	5,642,348	06/1997	Barzegar et al.			
	5,655,001	08/1997	Cline et al.			
	5,657,356	08/1997	Panech et al.			
	5,663,958	09/1997	Ward			
	5,663,990	09/1997	Bolgiano et al.			
	5,673,259	09/1997	Quick, Jr.			
	5,687,194	11/1997	Paneth et al.			
	5,697,059	12/1997	Carney			
	5,699,364	12/1997	Sato et al.			
	5,708,656	01/1998	Noneman et al.			

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	5,729,541	03/1998	Hamalainen et al. <sup>1</sup>			
	5,734,646	03/1998	I et al.			
	5,748,624	05/1998	Kondo			
	5,781,542	07/1998	Tanaka et al.			
	5,784,406	07/1998	DeJaco et al.			
	5,790,551	08/1998	Chan			
	5,793,744	08/1998	Kanerva et al.			
	5,802,465	09/1998	Hamalainen et al.			
	5,809,415	09/1995	Rossmann			
	5,825,807	10/1998	Kumar			
	5,828,659	10/1998	Teder et al.			
	5,828,662	10/1998	Jalali et al.			
	5,844,894	12/1998	Dent			
	5,845,211	12/1998	Roach			
	5,854,786	12/1998	Henderson et al.			
	5,856,971	01/1999	Gitlin et al.			
	5,859,840	01/1999	Tiedemann, Jr. et al.			
	5,859,879	01/1999	Bolgiano et al.			
	5,872,786	02/1999	Shobatake			
	5,881,060	03/1999	Morrow et al.			
	5,896,376	04/1999	Alperovich et al.			
	5,905,719	05/1999	Arnold et al.			
	5,910,945	06/1999	Garrison et al.			
	5,914,950	06/1999	Tiedemann, Jr. et al.			
	5,923,650	07/1999	Chen et al.			

1 Corresponds to EP 0687078

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	5,930,230	07/1999	Odenwalder et al.			
	5,946,356	08/1999	Felix et al.			
	5,950,131	09/1999	Vilmur			
	5,956,332	09/1999	Rasanen et al.			
	5,966,374	10/1999	Rasanen			
	5,991,279	11/1999	Haugli et al.			
	6,001,800	12/1999	Mehta et al.			
	6,002,690	12/1999	Takayama et al.			
	6,005,855	12/1999	Zehavi et al.			
	6,009,106	12/1999	Rustad et al.			
	6,011,800	01/2000	Naragauda et al.			
	6,028,853	02/2000	Haartsen			
	6,028,868	02/2000	Yeung et al.			
	6,031,832	02/2000	Turina			
	6,052,385	04/2000	Kanerva et al.			
	6,058,104	05/2000	Snelling et al.			
	6,064,678	05/2000	Sindhushayana et al.			
	6,069,883	05/2000	Ejzak et al.			
	6,078,572	06/2000	Tanno et al.			
	6,081,536	06/2000	Gorsuch et al.			
	6,088,335	07/2000	I et al.			
	6,097,722	08/2000	Graham et al.			
	6,097,733	8/2000	Basu et al.			
	6,111,863	08/2000	Rostoker et al.			
	6,112,092	08/2000	Benveniste			
	6,134,233	10/2000	Kay			

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	6,151,332	11/2000	Gorsuch et al.			
	6,157,619	12/2000	Ozluturk et al.			
	6,161,013	12/2000	Anderson et al.			
	6,181,683	01/2001	Chevillat et al. <sup>2</sup>			
	6,185,196	12/1997	Mademann			
	6,195,362	02/2001	Darcie et al.			
	6,198,723	03/2001	Parruck et al.			
	6,198,728	03/2001	Hulyalkar et al.			
	6,208,871	03/2001	Hall et al.			
	6,215,798	04/2001	Carneheim et al.			
	6,222,828	04/2001	Olson et al.			
	6,236,647	05/2001	Amalfitano			
	6,243,372	06/2001	Petch et al.			
	6,249,681	06/2001	Virtanen			
	6,259,683	07/2001	Sekine et al.			
	6,262,980	07/2001	Leung et al.			
	6,269,088	07/2001	Masui et al.			
	6,272,168	08/2001	Lomp et al.			
	6,285,665	09/2001	Chuah			
	6,307,840	10/2001	Wheatley III et al.			
	6,310,859	10/2001	Morita et al.			
	6,335,922	01/2002	Tiedemann, Jr. et al.			
	6,366,570	04/2002	Bhagalia			
	6,370,117	04/2002	Koraitim et al.			
	6,373,830	04/2002	Ozluturk			

2 Corresponds to WO 97/00568

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	6,373,834	04/2002	Lundh et al.			
	6,377,548	04/2002	Chuah			
	6,377,809	04/2002	Rezaiifar et al.			
	6,388,999	05/2002	Gorsuch et al.			
	6,389,000	05/2002	Jou			
	6,396,804	05/2002	Odenwalder			
	6,418,148	07/2002	Kumar et al.			
	6,456,608	09/2002	Lomp			
	6,469,991	10/2002	Chuah			
	6,473,623	10/2002	Benveniste			
	6,504,830	01/2003	Östberg et al.			
	6,519,651	02/2003	Dillon			
	6,526,039	02/2003	Dahlman et al.			
	6,526,064	02/2003	Bousquet			
	6,526,281	02/2003	Gorsuch et al.			
	6,532,365	03/2003	Anderson et al.			
	6,542,481	04/2003	Foore et al.			
	6,545,986	04/2003	Stellakis			
	6,567,416	05/2003	Chuah			
	6,570,885	05/2003	Masui et al.			
	6,571,296	05/2003	Dillon			
	6,574,211	06/2003	Padovani et al.			
	6,597,913	07/2003	Natarajan			
	6,845,104	01/2005	Johnson et al.			
	6,973,140	12/2005	Hoffman et al.			
	7,054,293	05/2006	Tiedemann et al.			

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		2004/0160910	08/2004	Gorsuch et al.				
		2004/0180696	09/2004	Foore et al.				
FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		4426183	10/1995	DE <sup>3</sup>			X**	
		19907085	04/2000	DE				
		443061	08/1991	EP			X	
		526106	02/1993	EP				
		682423	11/1995	EP				
		682426	11/1995	EP				
		719062	06/1996	EP				
		635949	01/1995	EP <sup>4</sup>				
		2761557	10/1998	FR <sup>5</sup>				
		2243973	11/1991	GB				
		2000-236851	10/2000	JP			X**	
		2000-236343	08/2000	JP			X**	
		9-55764	02/1997	JP			X**	
		2002-510447	04/2002	JP <sup>6</sup>				
		7-107546	09/1993	JP			X**	
		8-140143	11/1994	JP			X**	

X\*\*English Abstract Only

3 Corresponds to WO 96/03815

4 Corresponds to US 5,606,580

5 Corresponds to US 6,526,039

X\*\*English Abstract Only

6 Corresponds to WO 98/59523

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							YES	NO
		7-303093	04/1995	<del>JP</del>			X**	
		5-167609	07/1993	JP			X**	
		8-316966	11/1996	JP			X**	
		<del>8-097824</del>	04/1996	JP			X**	
		1997-0001857	02/1997	KR			X**	
/A.Q.	*	1996-0016201	05/1996	KR			X**	
		1401626	06/1988	<del>SU</del>			X	
		1837403	08/1993	SU			X	
		93/21719	10/1993	WO				
		95/05053	02/1995	WO <sup>7</sup>				
		95/07578	03/1995	WO <sup>8</sup>				
		95/08900	03/1995	WO				
		95/30289	11/1995	WO <sup>9</sup>				
		96/08934	03/1996	WO				
		96/27994	12/1996	WO				
		96/37081	11/1996	WO <sup>10</sup>				
		97/23073	06/1997	WO				
		97/32412	04/1997	WO				
		97/36405	10/1997	WO				
		97/46044	12/1997	WO				
		98/53447	12/1998	WO				
		98/59523	12/1998	WO				

7 Corresponds to US 5,774,460

8 Corresponds to JP 9-504914

9 Corresponds to US 5,544,156

10 Corresponds to JP H07-503357

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		99/44341	09/1999	WO				
		99/63713	12/1999	WO				

## OTHER DOCUMENTS

EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
		ANDERMO ET AL., "Code Division Testbed, CODIT," IEEE International Conference on Universal Personal Communications, Volume 1, pp. 397-401 (October 12-15, 1993).
		ANDERMO ET AL., "CODIT and Third Generation Systems," 4 <sup>th</sup> IEEE International Conference on Universal Personal Communications Record, pp. 843-847 (November 6-10, 1995).
		ANDERMO ET AL., "CODIT, a Testbed Project Evaluating DS-CDMA for UMTS/FPLMTS," IEEE 44 <sup>th</sup> Vehicular Technology Conference, Volume 1, pp. 21-25 (June 8-10, 1994).
		ANDERMO, "Overview of CODIT Project," Proceedings of the RACE Mobile Telecommunications Summit, pp. 33-42 (November 1995).
		Attachment 2, <i>High Speed Data RLP</i> Lucent Technologies, Version 0.1, January 16, 1997.
		Azad et al., Multirate Spread Spectrum Direct Sequence CDMA Techniques, 1994, The Institute of Electrical Engineers.
		Bell Labs Technical Journal, Lucent Technologies, Volume 2, Number 3, Summer 1997.
/A.Q./ *		Brismark et al., "A Coherent Detection Scheme for the Uplink Channel in a CDMA System," 1994 IEEE 44th Vehicular Technology Conference, Stockholm, Sweden, vol. 2, pp 729-732 (June 1994).
		Budka et al., Cellular Digital Packet Data Networks, Bell Labs Technical Journal, Summer 1997, Pages 164-181.
		Cellular Digital Packet Data, System Specification, Release 1.1, January 19, 1995.

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	Chih-Lin I et al., IS-95 Enhancements for Multimedia Services, Bell Labs Technical Journal, Pages 60-87, Autumn 1996.
	Chih-Lin I et al., Load and Interference Based Demand Assignment (LIDA) for Integrated Services in CDMA Wireless Systems, November 18, 1996, Pages 235-241.
	Chih-Lin I et al., Multi-Code CDMA Wireless Personal Communications Networks, June 18, 1995.
	Chih-Lin I et al., Performance of Multi-Code CDMA Wireless Personal Communications Networks, July 25, 1995.
	Chih-Lin I et al., Variable Spreading Gain CDMA with Adaptive Control for True Packet Switching Wireless Network, 1995, Pages 725-730.
	Chung, Packet Synchronization and Identification for Incremental Redundancy Transmission in FH-CDMA Systems, 1992, IEEE, Pages 292-295.
	CODIT Final Review Report, Issue 2.0 (November 21, 1995).
	Data Service Options for Wideband Spread Spectrum Systems, TIA/EIA Interim Standard. TIA/EIA/IS-707, February 1998.
	<i>Data Service Options for Wideband Spread Spectrum Systems.</i> TIA/EIA Interim Standard. TIA/EIA/IS-707-A. April 1999.
	Data Service Options for Wideband Spread Spectrum Systems: Introduction, PN-3676. 1 (to be published as TIA/EIA/IS-707.1), March 20, 1997 (Content Revision 1).
	<i>Data Services Option Standard for Wideband Spread Spectrum Digital Cellular System.</i> TIA/EIA/IS-99. TIA/EIA Interim Standard. July 1995.
	<i>Data Services Options Standard for Wideband Spread Spectrum Systems: Packet Data Services. PN-3676.5 (to be published as TIA/EIA/IS-707.5) Ballot Version, May 30, 1997.</i>

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EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
	Data Standard, Packet Data Section, PN-3676.5 (to be published as TIA/EIA/IS-DATA.5), December 8, 1996, Version 02 (Content Revision 03).
	Draft Text for “*95C” Physical Layer (Revision 4), Part 1, Document #531-981-20814-95C, Part 1 on 3GPP2 website ( <a href="ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-98120814-95c.%20part%201.pdf">ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-98120814-95c.%20part%201.pdf</a> , 1998).
	Draft Text for “95C” Physical Layer (Revision 4), Part 2, Document #531-981-20814-95C, part 2 on 3GPP2 website ( <a href="ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-98120814-95c.%20part%202.pdf">ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-98120814-95c.%20part%202.pdf</a> , 1998).
	Ejzak et al., Lucent Technologies Air Interface Proposal for CDMA High Speed Data Service, Revision 0.1, May 5, 1997.
	Ejzak et al., Lucent Technologies Air Interface Proposal for CDMA High Speed Data Service, April 14, 1997.
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	Elhakeem, Congestion Control in Signalling Free Hybrid ATM/CDMA Satellite Network, IEEE, 1995, Pages 783-787.
	“GSM 03.64 v2.1.1 Overall description of the GPRS radio interface; Stage 2”, TDoc SMG 360 /97, Meeting #22, Kristiansand, Norway, June 9th - 13th 1997.
	Hall et al., Design and Analysis of Turbo Codes on Rayleigh Fading Channels, IEEE Journal on Selected Areas in Communications, Vol. 16, No. 2, February 1998, Pages 160-174.
	High Data Rate (HDR) Solution, Qualcomm, December 1998.
	High Data Rate (HDR), cdmaOne optimized for high speed, high capacity data, Wireless Infrastructure, Qualcomm, September 1998.
	Hindelang et al., Using Powerful “Turbo” Codes for 14.4 Kbit/s Data Service in GSM or GPRS Systems, IEEE Global Communications Conference, Phoenix, Arizona, USA, November 3-8, 1997, Vol. II, Pages 649-653.

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		Honkasalo, Harri. <i>High Speed Data Air Interface</i> . 1996.
		IBE, "Networks and Remote Access. Protocols, Problems, and Solutions," DMK Publishers, p. 56 (2002).
		<i>Introduction to cdma2000 Spread Spectrum Systems, Release C</i> . TIA/EIA Interim Standard. TIA/EIA/IS-2000.1-C. May, 2002.
		Kaiser et al., Multi-Carrier CDMA with Iterative Decoding and Soft-Interference Cancellation, Proceedings of Globecom 1997, Vol. 1, Pages 523-529.
		Knisely, Douglas, N. Telecommunications Industry Association Subcommittee TR-45.5 - <i>Wideband Spread Spectrum Digital Technologies Standards</i> . Banff, Alberta. February 24, 1997 (TR45.5/97.02.24)21.
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	APPLICANT Foore et al.	
	FILING DATE January 29, 2004	GROUP 2472

EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
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	3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; QoS Concept and Architecture (3GPP TS 23.107 version 3.5.0 Release 1999)

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Lined through references already considered

Considered only new references marked with \*

/Afsar Qureshi/ EXAMINER	DATE CONSIDERED 09/06/2011
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